

CASE STUDY



COATING QUAKERCOAT® 547

CHALLENGES

A major Tube and Pipe manufacturer was experiencing the following problems due to the coating they were using:

- » Corrosion problems in the field
- » Very high clean-up expenses
- » Uncontrollable coating usage
- » Fire and health hazards
- » Double processing of pipes

Instead of focusing on the coating, Quaker used a value added approach, centering on the identification of the manufacturer's necessities and problems, and delivering solutions.

- » Quaker met with the manufacturer and identified the specific problems on the line
- » They proposed a trial of an upgraded solvent based coating QUAKERCOAT® 547 as a solution to their problems and a way to optimize their lines

THE SOLUTION

Trial results for solvent-based QUAKERCOAT® 547:

- » Significant reduction in smell
- » Elimination of mist and harmful vapors
- » Elimination of dripping and costly clean-ups and reduction in waste
- » Increased drying speeds
- » Improved pipe appearance and protection
- » Simplified production process
- » 63% reduction in total cost



QUAKERCOAT® 547



QUAKERCOAT® 547
Total solution to clean up issues

THE PRODUCT

QUAKERCOAT® 547 is a solvent-based, high solids coating intended for use as a decorative corrosion inhibiting coating on metal, particularly tube and pipe surfaces. QUAKERCOAT® 547 has the following benefits:

- » High solids technology results in greater coating coverage per gallon of product, thus reducing applied coating costs
- » Costly surface corrosion is inhibited because of inherent consistent film uniformity
- » Clean-up costs are minimized due to drying properties and minimal drain-off and drippage
- » Relatively low VOC content allows use in many locations where VOC limitations are stringent

	QUAKERCOAT® 547	COMPETITIVE PRODUCT
Solids/volume	46%	36%
Average DFT (mils) (1 mil = 25 microns)	0.90	1.40
Transfer Efficiency	83%	65%
Actual Applied Coverage	683.2	266.4
% Recovery (Estimated Average)	30%	0%
Additional coverage from recovery	34.2	0.0
Total Coverage (ft ² /gal)	717.3	266.4
Gallons/year	42,081.18	113,322.56
ft ² /gal	820	412
\$/ft ²	\$0.0263	\$0.0367
Clean-ups	\$0	\$60,000
Total Cost/yr	\$410,977	\$1,106,742

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THE EXPERTISE

Quaker is a worldwide developer, producer and marketer of custom formulated Tube & Pipe process chemicals and coatings. From first coil to final cut, Quaker is capable of providing process chemicals for all operations in ERW and Seamless mills, and delivers the in-depth process expertise to help maximize your productivity.

Quaker's product line includes hydraulic lubricants, high-temperature greases, cleaners, forming & sizing coolants, drawing & forming compounds, sawing lubricants, hydrotesting compounds, corrosion preventives and a complete line of high-value coatings (including solvent, water-based and UV coatings).

PROCESS AND EQUIPMENT

Part	Seamless Pipe
Concentration	No dilution
Line Speed	200 ft/min
Pipes produced/yr	586,432
Pressure	400 - 600 psi
Specific Operation	Spray applied pipe coating